SECTION I
AMENDMENTS TO THE CLAIMS

Please amend claims 20 and 27 as set forth below.

Complete Listing of the Claims

Upon entry of the present amendment, the claims will stand as follows. The following listing of the claims will replace all prior versions and listings of the claims in the present application:

1-19. (Canceled)

20. (Currently amended) A method of increasing the content of one or more desired transgene-coded proteins or peptides in a transgenic plant, comprising inhibiting a plastidary ATP/ADP transporter gene in said plant by antisense inhibition thereof, wherein the plant is transformed with and expresses (i) an antisense gene construct for the plastidiary ATP/ADP transporter gene, (ii) a selectable marker gene and (iii) one or more further desired transgenes, wherein the content of the transgene-coded protein or peptide in said transgenic plant is increased relative to the content of the transgene-coded protein or peptide in a control plant of the same genetic background.

21. (Previously presented) The method according to claim 20, wherein the antisense gene construct for the plastidiary ATP/ADP transporter gene is a cDNA of the plastidiary ATP/ADP transporter in antisense orientation.

22. (Previously presented) The method according to claim 20, wherein the expression of the transgene-coded proteins or peptides is constitutive or is regulated temporally, locally or inducibly.

23. (Previously presented) The method according to claim 20, wherein several transgene-coded proteins or peptides are expressed in parallel or sequentially.

24. (Previously presented) The method according to claim 20, wherein the plant comprises gramineae, chenopodiaceae, leguminosae, brassicaceae, solanaceae, fungi, mosses, and algae.

25. (Previously presented) The method according to claim 20, wherein the plant comprises wheat, barley, rice, corn, sugar beets, sugarcane, rape, mustard, oilseed rape, flax, safflower,

peas, beans, lupins, tobacco, lucerne, soya, bananas, ananas, potatoes, sunflowers, melons, sweet potatoes, spelt, alfalfa, paprika, topinambur, tomatoes, durum wheat, rye or batata.

26. (Previously presented) The method according to claim 20, wherein the one or more further desired transgenes codes for a protein selected from the group consisting of an antibody, a receptor, a growth factor, a hormone, a specific antigen, an interferon, an immunoglobulin, a growth hormone, insulin, collagen, plasminogen activator, blood factor, a histocompatibility antigen, a tumor marker protein and a viral protein.

27. (Currently amended) A method of increasing the content of one or more transgene-coded proteins or peptides in a transgenic potato plant comprising inhibiting a potato plastidary ATP/ADP transporter gene in said plant by antisense inhibition thereof, wherein the potato plant is transformed with and expresses (i) an antisense gene construct for the plastidiary ATP/ADP transporter gene, (ii) a selectable marker gene and (iii) one or more further desired transgenes, wherein the content of the transgene-coded protein or peptide in said transgenic potato plant is increased relative to the content of the transgene-coded protein or peptide in a control plant of the same genetic background.

28. (Previously presented) The method according to claim 27, wherein the expression of the transgene-coded proteins or peptides is constitutive or is regulated temporally, locally or inducibly.

29. (Previously presented) The method according to claim 27, wherein several transgene-coded proteins or peptides are expressed in parallel or sequentially.

30. (Previously presented) The method according to claim 27, wherein the antisense construct suppressing the expression of the plastidiary ATP/ADP transporter is a cDNA of the plastidiary ATP/ADP transporter in antisense orientation.

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